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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,199	10/15/2003	Paul Budworth	1392/11	6710
JENKINS, WILSON, TAYLOR & HUNT, P. A. Suite 1200 UNIVERSITY TOWER 3100 TOWER BLVD., DURHAM, NC 27707			EXAMINER	
			JOIKE, MICHELE K	
			ART UNIT	PAPER NUMBER
			1636	
			MAIL DATE	DELIVERY MODE
			12/10/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/686,199	BUDWORTH ET AL.			
		Examiner	Art Unit			
		MICHELE K. JOIKE	1636			
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the	correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMENTED IN CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Properties of the period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing department term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on <u>18</u> .	August 2008				
•		is action is non-final.				
3)	<del>/ _</del>					
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) <u>1-3,5-10 and 12-19</u> is/are pending ir	n the application.				
,	4a) Of the above claim(s) <u>18 and 19</u> is/are withdrawn from consideration.					
	i) Claim(s) is/are allowed.					
· —	6)⊠ Claim(s) <u>1-3.5-10, 12-17</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/	or election requirement				
ا ا	are subject to restriction and	or election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examir	ner.				
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some coll None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date			

## **DETAILED ACTION**

Receipt is acknowledged of a reply to the previous Office Action, filed August 18, 2008. Amendments were made to claims 1 and 9. Claims 4 and 11 are canceled.

Claims 1-3, 5-10 and 12-19 are pending, claims 1-3, 5-10 and 12-17 are under consideration.

Any rejection of record in the previous Office Action, mailed April 17, 2008 that is not addressed in this action has been withdrawn.

Because this Office Action only maintains rejections set forth in the previous

Office Action and/or sets forth new rejections that are necessitated by amendment, this

Office Action is made FINAL.

## Response to Arguments Concerning Claim Rejections –35 USC §103(a)

Applicants' arguments filed on August 18, 2008 have been fully considered. The following grounds of traversal are presented:

Applicants' argue that claims 1 and 9 are methods directed to obtaining binding partners, and claim 16 is a method directed to screening for binding partners. Cronan supplies the binding partners, therefore they are already known. Therefore, Cronan does not support the instant rejection.

Furthermore, the binding partner is for the protein of interest, and not the affinity tag. In Cronan, the binding partner is disclosed to be an antibody that binds to the fusion protein via the post-translational modification sequence, as opposed to the claims which require binding to the protein of interest. Also, the post-translational modification

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sequence/affinity tag is to permit the fusion protein to be identified or isolated by means of the post-translational modification. The post-translational modifications are chosen beforehand to coincide with the known reagents.

Applicants also argue that one of ordinary skill in the art would not look to Rigaut to provide an affinity tag because Cronan already included one. If the skilled artisan replaced the biotination sequence with an affinity tag from Rigaut, the resulting construct would no longer encode a post-translational modification sequence.

Lastly, there is no basis for employing both a post-translational sequence, and a further affinity purification sequence.

Applicants' arguments have not been found persuasive for the following reasons.

The Examiner disagrees that the Cronan does not teach a method directed to obtaining binding partners. The word "obtaining" is broader than screening and does not exclude known partners. The Examiner is interpreting "obtaining" to have a similar meaning as providing. There is no language in the specification to indicate that "obtain" is equivalent to "screen." As for screening for binding partners, the Examiner was citing Rigaut, not Cronan, to teach this limitation, as explained in the prior office action.

Rigaut, not Cronan, was also used to teach that the method is for identifying binding partners of the protein of interest. Although Cronan does teach an antibody as a binding partner, it also envisions other compounds that bind to the fusion protein. It does not state specifically that the binding partner is binding to the protein of interest, but again, that is what Rigaut teaches. Furthermore, in response to applicant's

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arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck* & *Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

There is no need to replace the biotination sequence with the tag from Rigaut.

Rigaut teaches using one or two affinity tags. Since Cronan teaches that the biotination sequence can also act as a tag, there would be no need to replace it, if not desired.

## Allowable Subject Matter

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELE K. JOIKE whose telephone number is (571)272-5915. The examiner can normally be reached on M-F, 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571)272-0951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michele K Joike Examiner Art Unit 1636

/David Guzo/ Primary Examiner Art Unit 1636